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L1	226	calpain near4 (protease or peptidase or proteinase)	USPAT	OR	OFF	2006/07/26 21:21
L2	112	calpain near4 (human or sapien)	USPAT	OR	OFF	2006/07/26 21:21
L3	56	I1 and I2	USPAT	OR	OFF	2006/07/26 21:21
L4	5	calpain near4 (chick or chicken or gallus)	USPAT	OR	OFF	2006/07/26 21:22
L5	3	I3 and I4	USPAT	OR	OFF	2006/07/26 21:22

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=> s calpain (4A) (human or sapien)
L2 1433 CALPAIN (4A) (HUMAN OR SAPIEN)

=> s 1 and 2
L3 11094621 1 AND 2

=> s l1 and l2
L4 446 L1 AND L2

=> s calpain near4 (chick or chicken or gallus)
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L5 145 CALPAIN (4A) (CHICK OR CHICKEN OR GALLUS)

=> s l4 and l5

L6 7 L4 AND L5

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L7 4 DUPLICATE REMOVE L6 (3 DUPLICATES REMOVED)

=> d l7 1-4 bib ab

L7 ANSWER 1 OF 4 MEDLINE on STN DUPLICATE 1
AN 1999339989 MEDLINE
DN PubMed ID: 10409436
TI CAPN11: A calpain with high mRNA levels in testis and located on
 chromosome 6.
AU Dear T N; Moller A; Boehm T
CS Max-Planck Institute for Immunobiology, Stuebeweg 51, Freiburg,
 D-79108,
 Germany.. dear@immunbio.mpg.de
SO Genomics, (1999 Jul 15) Vol. 59, No. 2, pp. 243-7.
 Journal code: 8800135. ISSN: 0888-7543.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-AJ242832
EM 199909
ED Entered STN: 21 Sep 1999
 Last Updated on STN: 21 Sep 1999
 Entered Medline: 8 Sep 1999
AB Calpains are a superfamily of related proteins, some of which
 have been
 shown to function as calcium-dependent cysteine proteases. In
mammals,
 eight different calpains have been identified. We report the
 identification of a new mammalian calpain gene, CAPN11. The
predicted
 protein possesses the features typical of calpains including
 potential protease and calcium-binding domains. The CAPN11 mRNA
 exhibits a highly restricted tissue distribution with highest
levels
 present in testis. Radiation hybrid mapping localized the gene
to human
 chromosome 6, within a region mapped to p12. Phylogenetic
analysis
 suggests that, in mammals, the predicted CAPN11 protein is most
closely
 related to CAPN1 and CAPN2. However, of the calpain sequences
available,
 the predicted CAPN11 sequence exhibits greatest homology to the

chicken micro/m calpain. Thus CAPN11 may be the human orthologue of micro/m calpain. The discovery of this new calpain emphasizes the complexity of the calpain family, with members being distinguished on the basis of protease activity, calcium dependence, and tissue expression.
Copyright 1999 Academic Press.

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1993:644149 CAPLUS

DN 119:244149

TI Additional peptidyl diazomethyl ketones, including biotinyl derivatives,
which affinity-label calpain and related cysteinyl proteinases

AU Wikstrom, Peter; Anagli, John; Angliker, Herbert; Shaw, Elliott

CS Friedrich Miescher-Inst., Basel, CH-4002, Switz.

SO Journal of Enzyme Inhibition (1993), 6(4), 259-69

CODEN: ENINEG; ISSN: 8755-5093

DT Journal

LA English

AB Calpain can be irreversibly inactivated by peptidyl diazomethyl ketones in

which the peptide portion contains a penultimate leucine residue. Some

new derivs. of this type were synthesized and examined for their rates of

inactivation of chicken gizzard and human blood platelet calpain. Two derivs. containing a C-terminal biotin (Biot) residue,

Biot-Aca-Leu-TyrCHN2 and Biot-Aca-Leu-Leu-TyrCHN2 (Aca = ϵ -aminocaproic acid), were also prepared in the expectation that their application to the study of the function of calpain and related proteases will prove fruitful.

L7 ANSWER 3 OF 4 MEDLINE on STN

AN 93359993 MEDLINE

DN PubMed ID: 1284963

TI Additional peptidyl diazomethyl ketones, including biotinyl derivatives,

which affinity-label calpain and related cysteinyl proteinases.

AU Wikstrom P; Anagli J; Angliker H; Shaw E

CS Friedrich Miescher-Institut, Basel, Switzerland.

SO Journal of enzyme inhibition, (1992) Vol. 6, No. 4, pp. 259-69.

Journal code: 8709734. ISSN: 8755-5093.

CY Switzerland

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199309

ED Entered STN: 8 Oct 1993
Last Updated on STN: 3 Mar 2000
Entered Medline: 21 Sep 1993
AB Calpain, the calcium-activated cysteinyl proteinase,
can be irreversibly inactivated by peptidyl diazomethyl ketones
in which
the peptide portion contains a penultimate leucine residue.
Some new
derivatives of this type have been synthesized and examined for
their
rates of inactivation of chicken gizzard and human
platelet calpain. Two derivatives containing a C-terminal
biotin residue, Biot-Aca-Leu-TyrCHN2 and
Biot-Aca-Leu-Leu-TyrCHN2, have
also been prepared in the expectation that their application to
the study
of the function of calpain and related proteases will
prove fruitful.

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1988:586041 CAPLUS
DN 109:186041
TI Myelin-associated calpain II
AU Yanagisawa, Katsuhiko; Sato, Shuzo; O'Shannessy, Daniel J.;
Quarles,
Richard H.; Suzuki, Koichi; Miyatake, Tadashi
CS Brain Res. Inst., Niigata Univ., Niigata, Japan
SO Journal of Neurochemistry (1988), 51(3), 803-7
CODEN: JONRA9; ISSN: 0022-3042
DT Journal
LA English
AB Anti-chicken muscle calpain (Ca-activated neutral
protease) antibody (ACAb) was absorbed by purified human brain
myelin when titrated by ELISA, suggesting the close association
of the
protease with myelin. To confirm this, Ca-dependent protease
was extracted
from myelin membrane and purified on a Ph Sepharose CL 4B
column. It was
activated by Ca^{2+} in the millimolar range, and therefore was
determined to be
calpain II. This enzyme fraction was electrophoresed and
immunostained
with ACAb, resulting in staining as a single band with apparent
mol. weight
of 80K. This protease degraded exogenous myelin-associated
glycoprotein.
Apparently, calpain II is bound to myelin membrane and is
involved in the
turnover of myelin proteins.



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1: Turner MD, Cassell PG, Hitman GA.

Related Articles, Links

Calpain-10: from genome search to function.
Diabetes Metab Res Rev. 2005 Nov-Dec;21(6):505-14. Review.
PMID: 16028216 [PubMed - indexed for MEDLINE]

2: Groll M, Huber R.

Related Articles, Links

Inhibitors of the eukaryotic 20S proteasome core particle: a structural approach.
Biochim Biophys Acta. 2004 Nov 29;1695(1-3):33-44. Review.
PMID: 15571807 [PubMed - indexed for MEDLINE]

3: Friedrich P, Tompa P, Farkas A.

Related Articles, Links

The calpain-system of Drosophila melanogaster: coming of age.
Bioessays. 2004 Oct;26(10):1088-96. Review.
PMID: 15382138 [PubMed - indexed for MEDLINE]

4: Goll DE, Thompson VF, Li H, Wei W, Cong J.

Related Articles, Links

The calpain system.
Physiol Rev. 2003 Jul;83(3):731-801. Review.
PMID: 12843408 [PubMed - indexed for MEDLINE]

5: Baud L, Fouqueray B, Bellocq A, Peltier J.

Related Articles, Links

[Calpains participate in inflammatory reaction development]
Med Sci (Paris). 2003 Jan;19(1):71-6. Review. French.
PMID: 12836194 [PubMed - indexed for MEDLINE]

6: Maki M, Kitaura Y, Satoh H, Ohkouchi S, Shibata H.

Related Articles, Links

Structures, functions and molecular evolution of the penta-EF-hand Ca²⁺-binding proteins.
Biochim Biophys Acta. 2002 Nov 4;1600(1-2):51-60. Review.
PMID: 12445459 [PubMed - indexed for MEDLINE]


7: Carragher NO, Frame MC.

Related Articles, Links

Calpain: a role in cell transformation and migration.
Int J Biochem Cell Biol. 2002 Dec;34(12):1539-43. Review.
PMID: 12379276 [PubMed - indexed for MEDLINE]


8: Glading A, Lauffenburger DA, Wells A.

Related Articles, Links

-  Cutting to the chase: calpain proteases in cell motility.
Trends Cell Biol. 2002 Jan;12(1):46-54. Review.
PMID: 11854009 [PubMed - indexed for MEDLINE]


☐ 9: Reverter D, Sorimachi H, Bode W.

[Related Articles, Links](#)

-  The structure of calcium-free human m-calpain: implications for calcium activation and function.
Trends Cardiovasc Med. 2001 Aug;11(6):222-9. Review.
PMID: 11673052 [PubMed - indexed for MEDLINE]


☐ 10: Donkor IO.

[Related Articles, Links](#)

-  A survey of calpain inhibitors.
Curr Med Chem. 2000 Dec;7(12):1171-88. Review.
PMID: 11032966 [PubMed - indexed for MEDLINE]


☐ 11: Mair J.

[Related Articles, Links](#)

-  Tissue release of cardiac markers: from physiology to clinical applications.
Clin Chem Lab Med. 1999 Nov-Dec;37(11-12):1077-84. Review.
PMID: 10726815 [PubMed - indexed for MEDLINE]


☐ 12: Kinbara K, Sorimachi H, Ishiura S, Suzuki K.

[Related Articles, Links](#)

-  Skeletal muscle-specific calpain, p49: structure and physiological function.
Biochem Pharmacol. 1998 Aug 15;56(4):415-20. Review.
PMID: 9763216 [PubMed - indexed for MEDLINE]


☐ 13: Maki M.

[Related Articles, Links](#)

-  [A family of the intracellular calcium-binding proteins with five EF-hand motifs]
Seikagaku. 1998 Mar;70(3):202-7. Review. Japanese. No abstract available.
PMID: 9591464 [PubMed - indexed for MEDLINE]


☐ 14: Tagawa K, Sorimachi H, Ishiura S, Suzuki K, Tagawa K, Seyama Y.

[Related Articles, Links](#)

-  [Calpain super family and its interacting-proteins]
Tanpakushitsu Kakusan Koso. 1997 Oct;42(14 Suppl):2165-74. Review. Japanese. No abstract available.
PMID: 9366193 [PubMed - indexed for MEDLINE]


☐ 15: Turk B, Turk V, Turk D.

[Related Articles, Links](#)

-  Structural and functional aspects of papain-like cysteine proteinases and their protein inhibitors.
Biol Chem. 1997 Mar-Apr;378(3-4):141-50. Review.
PMID: 9165064 [PubMed - indexed for MEDLINE]

☒ 16: Saido TC, Sorimachi H, Suzuki K.


[Related Articles, Links](#)

-  Calpain: new perspectives in molecular diversity and physiological-pathological involvement.
FASEB J. 1994 Aug;8(11):814-22. Review.
PMID: 8070630 [PubMed - indexed for MEDLINE]

☐ 17: Sorimachi H, Saido TC, Suzuki K.


[Related Articles, Links](#)

New era of calpain research. Discovery of tissue-specific calpains.

 FEBS Lett. 1994 Apr 18;343(1):1-5. Review.
PMID: 8163008 [PubMed - indexed for MEDLINE]

☐ 18: [Kikkawa U, Kishimoto A, Nishizuka Y.](#)

[Related Articles, Links](#)

 The protein kinase C family: heterogeneity and its implications.
Annu Rev Biochem. 1989;58:31-44. Review. No abstract available.
PMID: 2549852 [PubMed - indexed for MEDLINE]

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Jul 25 2006 06:31:58

Swope, Sheridan

From: Reynolds, Deborah
Sent: Wednesday, July 26, 2006 4:25 PM
To: Swope, Sheridan
Subject: RE: 10/009, 571

Let it go.

-----Original Message-----

From: Swope, Sheridan
Sent: Wednesday, July 26, 2006 4:21 PM
To: Reynolds, Deborah
Subject: 10/009, 571

Debbie,

Re the Oath:

The address was changed and dated but not initialed.

The oath was signed and dated the same day.

Would you let this go or object?

Thanks,

Sheridan

PS You did a good job at the R/E lecture; not sure why people are so hostile!!!

<< OLE Object: Picture (Device Independent Bitmap) >>

Sheridan Swope, Ph.D.
Primary Patent Examiner
AU 1656/Recombinant Enzymes
571-272-0943 (voice)
E02D19 Remsen Bld (Office)
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